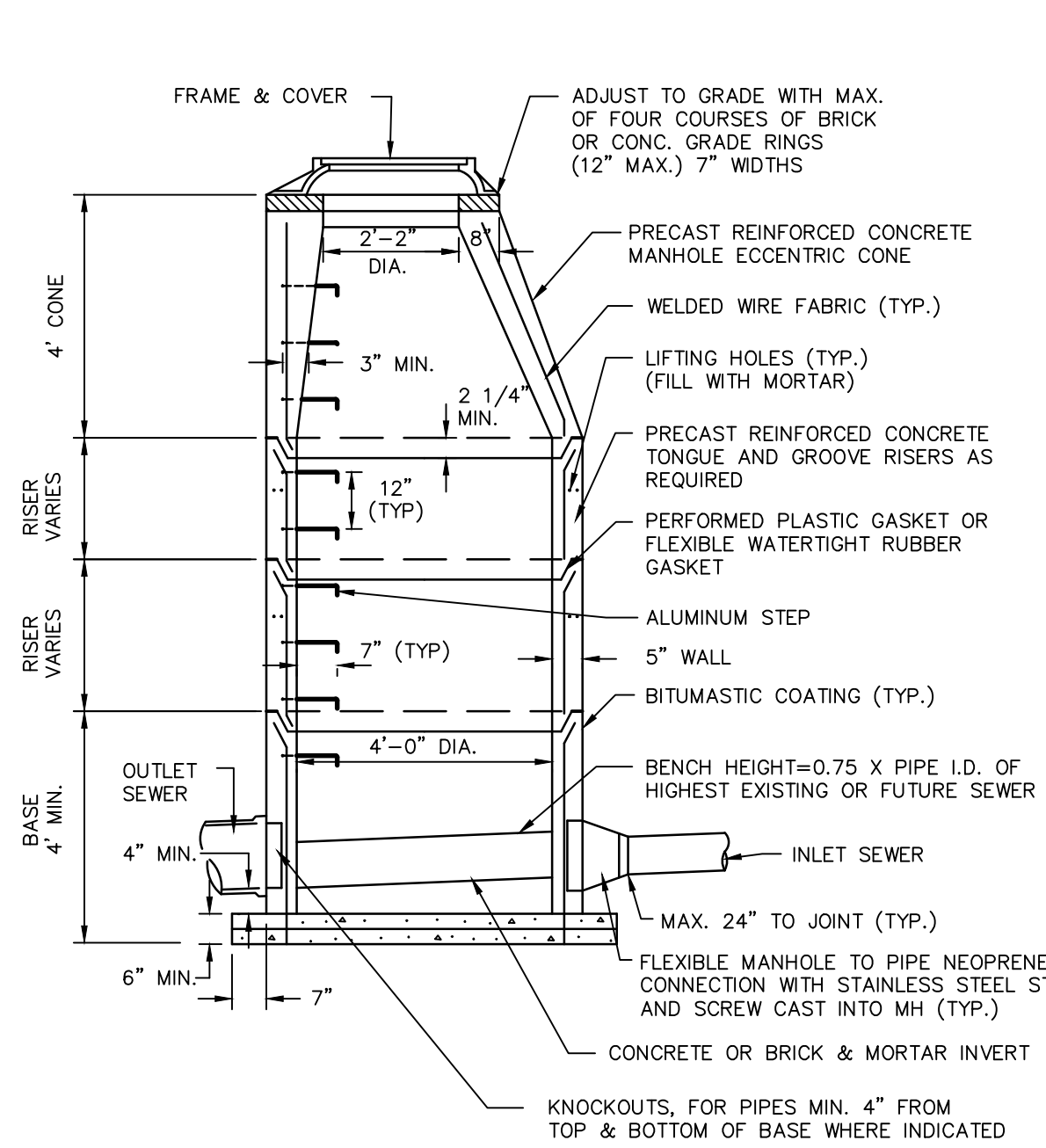
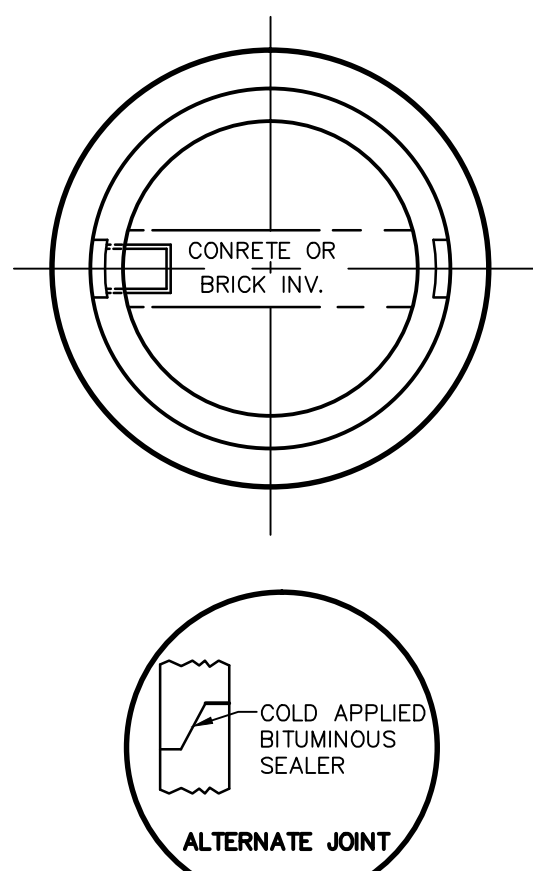


3/14/2013, EZEJAHNY, K:\B03667\DWG\B03667A001.DWG, DN-4 24x36 N.T.S.

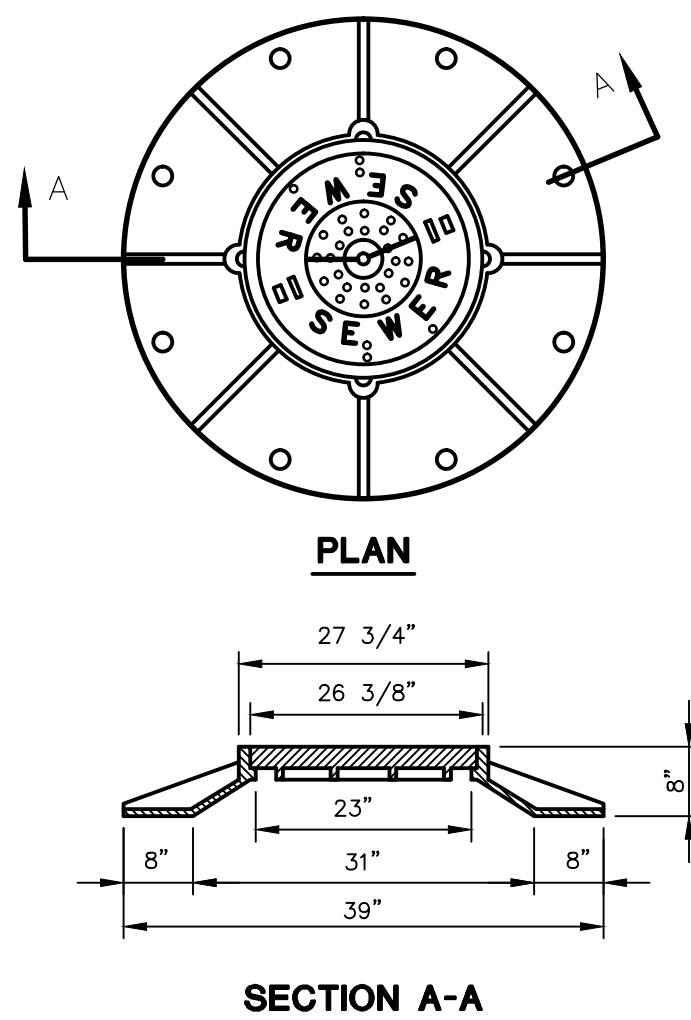


PRECAST SANITARY MANHOLE

N.T.S. BLSS-001



- NOTES:
1. 5' or 6' DIA. PRECAST BASES MAY BE USED WHEN REQUIRED DUE TO SIZE OR NUMBER OF PIPES AT THE MANHOLE. PRECAST REDUCERS WILL BE PLACED ABOVE THE 5' & 6' BASES AS DIRECTED BY THE ENGINEER. WALL THICKNESS TO INCREASE 1" FOR EACH 1' OF INSIDE DIAMETER INCREASE.
 2. WHEN INLET SEWER INVERT TO OUTLET SEWER INVERT ELVATION EXCEEDS 24" USE DROP CONNECTION.

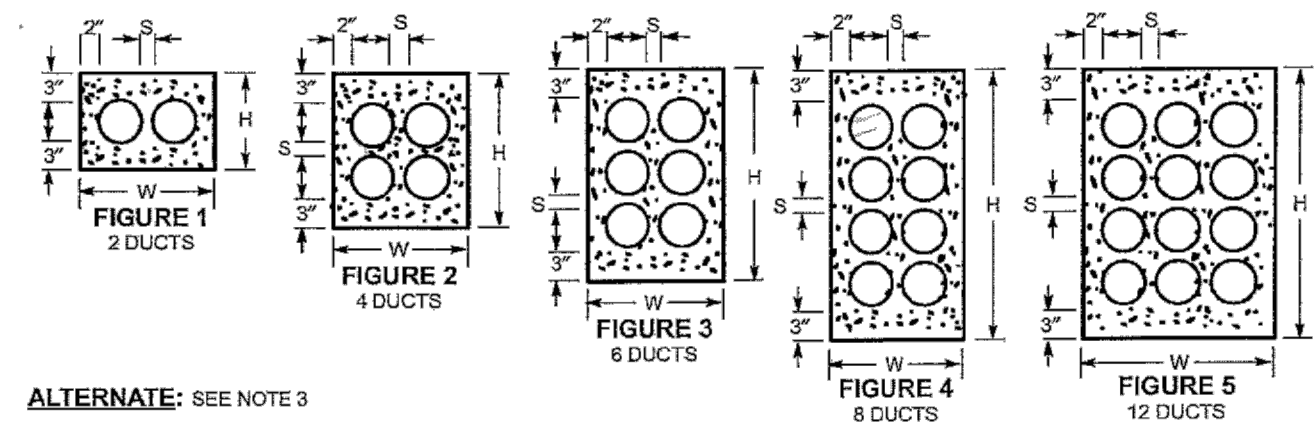


NOTE:
FRAME & GRATE TO BE CAMPBELL FOUNDRY COMPANY--PATTERN NUMBER 1221 WITHOUT COVER VENT HOLES

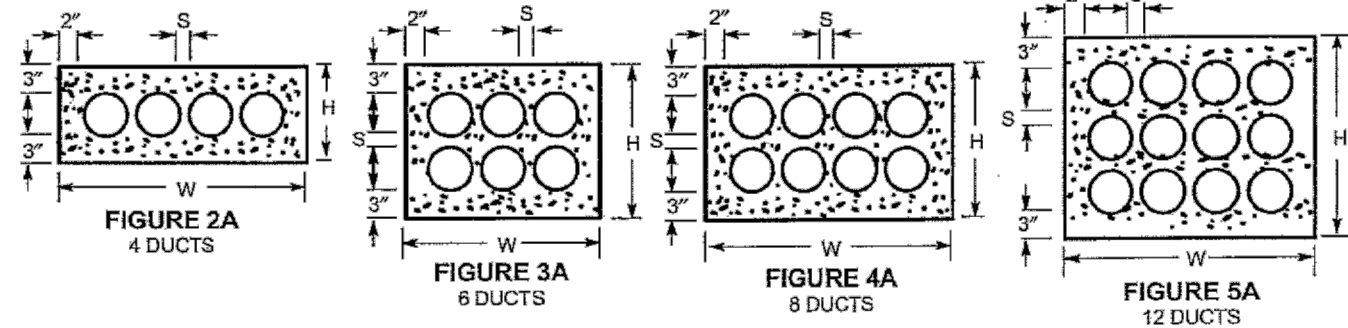
STANDARD MANHOLE FRAME AND COVER

N.T.S. BLSS-002

PREFERRED:



ALTERNATE: SEE NOTE 3



Dimensions in Inches											
Fig	4" Duct			5" Duct			6" Duct				
	W	H	S	W	H	S	W	H	S		
1	14-1/2	10-1/2	1-1/2	16-1/2	11-1/2	1-1/2	18	12-1/2	1-1/2	2	
2	14-1/2	16-1/2	1-1/2	16-1/2	18-1/2	1-1/2	18	21	1-1/2	3	
2A	26-1/2	10-1/2	1-1/2	30-1/2	11-1/2	1-1/2	36	12-1/2	1-1/2	4	
3	14-1/2	22-1/2	1-1/2	16-1/2	25-1/2	1-1/2	18	29-1/2	1-1/2	5	
3A	30-1/2	16-1/2	1-1/2	23-1/2	18-1/2	1-1/2	27-1/2	21	1-1/2	6	
4	14-1/2	28-1/2	1-1/2	16-1/2	32-1/2	1-1/2	18	35	1-1/2	7	
4A	26-1/2	16-1/2	1-1/2	30-1/2	18-1/2	1-1/2	36	21	1-1/2	8	
5	20-1/2	28-1/2	1-1/2	23-1/2	32-1/2	1-1/2	27-1/2	35	1-1/2	9	
5A	26-1/2	22-1/2	1-1/2	30-1/2	25-1/2	1-1/2	36	29-1/2	1-1/2	10	

Notes

1. At manholes conduit banks shall be per Figures 1, 2, 3, 4, or 5.
2. Minimum cover from top of a conduit bank to the pavement or earth surface shall be:
 - a. State highways - 36 inches
 - b. Railroad tracks - 60 inches
 - c. All other areas - 24 inches
3. In the conduit run between manholes if obstructions are encountered or to reduce trench depth, Figures 2A, 3A, 4A, or 5A are permissible.
4. Concrete shall be 2500 psi, 1/2 inch maximum stone, 6-8 inches slump of such consistency that spading will ensure the flow of concrete between and under the individual ducts, but not so wet as to float the ducts. For tier buildup construction a stiffer consistency should be used.

ORIGINAL	CONDUIT BANK CONSTRUCTION			
5/8/75				
APPROVED				
11/2/99				
6/2/00	NORTHEAST UTILITIES	DESIGN & APPLICATION STANDARD	DTR 73.209	5

DUCT BANK DETAIL

N.T.S.

Xref (3) : B03C667A001